

* SWBAT define and interpret impulse

Sep 6-2:31 PM

Welcome!!!

H. Leslie Grebe

- * Pick up:
 - slip of paper (for later)
 - notebook

PRIZES!

Opening Question:

A friend throws you a baseball and you don't have a mitt.

What do you do special when catching it? Why?



SECA Physics
Thursday 10 December 2015

Centering...

Sep 7-7:04 AM

Impulse is CHANGE in momentum ^{$m \cdot v$}

How do you catch a baseball if you don't have a glove?

What about a (really full) water balloon?

MOMENTUM \rightarrow ~~STOPPED~~

What is it you are trying to adjust???

TIME TO MAKE IT STOP

<http://www.youtube.com/watch?v=aMqM13EUSKw>

It takes TIME to change something's momentum

Dec 5-9:21 AM

Impulse is CHANGE in momentum ^{$mom. = m \cdot v$}

$$I = \Delta mom. = m \cdot \Delta v$$

GOING \rightarrow STOPPED

$$I = F \cdot t$$

Impulse = Force X Time

\downarrow X \uparrow

= : EQUALS

Δ : CHANGE IN

BRAKES

Safety: Big forces = OUCH!!!

When something stops, it changes momentum

Less OUCH if more TIME to stop!

ESPN "Relaxing with Impulse"

Examples of how force is connected to time

<http://www.youtube.com/watch?v=aMqM13EUSKw>

It takes TIME to change something's momentum

Dec 5-9:21 AM

Name, date 12/10

Essential Question -- why do we "give with" or "cradle" a ball that is coming at us fast?

Use more than one complete sentence and the words:

IN YOUR OWN WORDS

Force, time, momentum, impulse

READ TO TABLE, DIFFERENT COLOR FOR ANY CHANGES

Dec 15-10:16 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. Impulse is change in

- a) work
- b) power
- c) momentum

2. IMPULSE = Force X time

3. Why do you "give" when catching a baseball barehanded?

- a. To take more time and have less force
- b. To take less time and change speed more
- c. To do less work

Dec 2-7:55 AM

Dec 10-11:10 AM